

THE INVENTION CLAIMED

1. An elastomeric composition for the extrusion of elastic articles using an
5 extensional flow mixer on the extruder which comprises from about 20 to 50 parts by
weight of a polymer selected from the group consisting of a thermoplastic polyurethane
and a polyolefin, 20 to 50 parts by weight of a styrene-olefin copolymer, 5.0 to 40 parts
by weight of an ethylene-vinyl acetate polymer, 1.0 to 10 parts by weight of a maleic
anhydride-olefin copolymer, and 0.0 to 3.0 parts by weight of a phenolic resin.
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2. An elastomeric composition for the extrusion of elastic articles using an
extensional flow mixer on the extruder which comprises from about 35 to 45 parts by
weight of a polymer selected from the group consisting of a thermoplastic polyurethane
and a polyolefin, 35 to 45 parts by weight of a styrene-olefin copolymer, 10 to 20 parts
15 by weight of an ethylene-vinyl acetate polymer, 4.0 to 6.0 parts by weight of a maleic
anhydride-olefin copolymer, and 0.1 to 2.0 parts by weight of a phenolic resin.
3. The elastomeric composition of Claim 2 wherein the polymer is a thermoplastic
polyurethane.
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4. The elastomeric composition of Claim 2 wherein the polymer is a lower
molecular weight polyolefin.

5. The elastomeric composition of Claim 2 wherein the composition is extruded into an elastic sheet.

5 6. The elastomeric composition of Claim 2 wherein the composition is extruded into an elastic fibrous nonwoven fabric.

7. The elastomeric composition of Claim 2 wherein the composition is extruded into elastic fibers.

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8. The elastomeric composition of Claim 4 wherein the polyolefin is polyethylene.

9. The elastomeric composition of Claim 2 wherein the styrene-olefin copolymer is a styrene-ethylene copolymer.

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10. The elastomeric composition of Claim 2 wherein the maleic anhydride-olefin copolymer is a maleic anhydride-ethylene copolymer.

11. A process of preparing an elastic article by extruding an elastomeric composition
20 using an extensional flow mixer on the extruder which comprises from about 20 to 50 parts by weight of a polymer selected from the group consisting of a thermoplastic polyurethane and a polyolefin, 20 to 50 parts by weight of a styrene-olefin copolymer,

5.0 to 40 parts by weight of an ethylene-vinyl acetate polymer, 1.0 to 10 parts by weight of a maleic anhydride-olefin copolymer, and 0.0 to 3.0 parts by weight of a phenolic resin.

5 12. The process of Claim 11 wherein the elastomeric composition comprises from about 35 to 45 parts by weight of a polymer selected from the group consisting of a thermoplastic polyurethane, and a polyolefin, 35 to 45 parts by weight of a styrene-olefin copolymer, 10 to 20 parts by weight of an ethylene-vinyl acetate polymer, 4.0 to 6.0 parts by weight of a maleic anhydride-olefin copolymer, and 0.1 to 2.0 parts by weight of a
10 phenolic resin.

13. The process of Claim 12 wherein the polymer is a thermoplastic polyurethane.

14. The process of Claim 12 wherein the polymer is a lower molecular weight
15 polyolefin.

15. The process of Claim 12 wherein the elastomeric composition is extruded into an elastic fibrous nonwoven fabric, having a permanent deformation less than 2.0 percent after 100% elongation.

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16. The process of Claim 12 wherein the elastomeric composition is extruded into an elastic sheet.

17. The process of Claim 12 wherein the elastomeric composition is extruded in an extensional flow mixer attached to the end of the extruder forming an elastic article having a permanent deformation of less than 2.0 percent.

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18. The process of Claim 12 wherein the elastic article is a fibrous nonwoven fabric having tension set after 100% elongation of less than 2%.

19. The process of Claim 12 wherein the elastic article is an elastic sheet having
10 tension set after 100% elongation of 1.0 percent.

20. The elastic article obtained by the process of Claim 12.

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